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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:03:50 ON 08 MAR 2005

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 14:03:58 ON 08 MAR 2005

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STRUCTURE FILE UPDATES: 6 MAR 2005 HIGHEST RN 843607-47-6

DICTIONARY FILE UPDATES: 6 MAR 2005 HIGHEST RN 843607-47-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

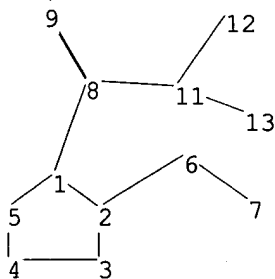
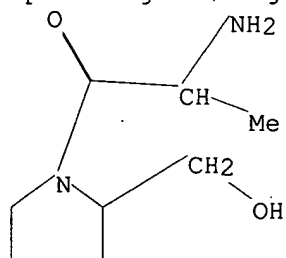
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10805624s.str



chain nodes :

6 7 8 9 11 12 13

ring nodes :

1 2 3 4 5

chain bonds :

1-8 2-6 6-7 8-9 8-11 11-12 11-13

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 1-8 8-9 11-12

exact bonds :

2-3 2-6 3-4 4-5 6-7 8-11 11-13

isolated ring systems :

containing 1 :

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
11:CLASS 12:CLASS 13:CLASS

L1 STRUCTURE UPLOADED

=> s  
ENTER LOGIC EXPRESSION, QUERY NAME, OR (END):end  
SEARCH ENDED BY USER

=> s l1  
SAMPLE SEARCH INITIATED 14:04:14 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 16383 TO ITERATE

6.1% PROCESSED 1000 ITERATIONS 0 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 319996 TO 335324  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full  
FULL SEARCH INITIATED 14:04:17 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 329095 TO ITERATE

100.0% PROCESSED 329095 ITERATIONS 6 ANSWERS  
SEARCH TIME: 00.00.03

L3 6 SEA SSS FUL L1

=> file caplus  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 161.33 161.54

FILE 'CAPLUS' ENTERED AT 14:04:24 ON 08 MAR 2005  
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FILE COVERS 1907 - 8 Mar 2005 VOL 142 ISS 11  
FILE LAST UPDATED: 7 Mar 2005 (20050307/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4            4 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS ON STN

ACCESSION NUMBER: 2004:435765 CAPLUS

DOCUMENT NUMBER: 141:140758

TITLE: Synthesis of D- and

L-2,3-trans-3,4-cis-4,5-trans-3,4-Dihydroxy-5-hydroxymethylproline and Tripeptides Containing Them

AUTHOR(S): Moreno-Vargas, Antonio J.; Robina, Inmaculada; Petricci, Elena; Vogel, Pierre

CORPORATE SOURCE: Laboratoire de Glycochimie et de Synthèse Asymétrique,

Swiss Federal Institute of Technology (EPFL), Lausanne-Dorigny, CH-1015, Switz.

SOURCE: Journal of Organic Chemistry (2004), 69(13), 4487-4491

CODEN: JOCEAH; ISSN: 0022-3263

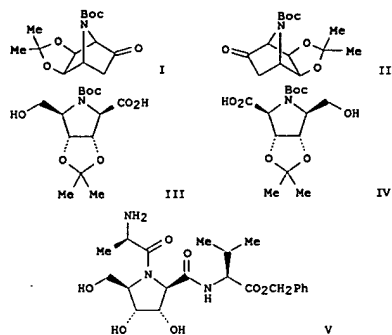
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 141:140758

GI



AB Enantiomerically pure (-)- and (+)-7-(tert-butoxycarbonyl)-5,6-exo-isopropylidenedioxy-7-azabicyclo[2.2.1]heptan-2-ones, I and II, resp., were prepared. I and II were converted into D- and

L-2,3-trans-3,4-cis-4,5-trans-N-(tert-butoxycarbonyl)-5-hydroxymethyl-3,4-isopropylidenedioxyprolines, III and IV, resp. Applying the Boc and Fmoc strategies of peptide synthesis, these compds. were used to construct two tripeptides. For example, III was incorporated into peptide synthesis to give tripeptide V.

IT 726192-28-5P

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS ON STN

ACCESSION NUMBER: 2003:334930 CAPLUS

DOCUMENT NUMBER: 138:331666

TITLE: Method for re-sensitizing vancomycin resistant bacteria using agents which selectively cleave a cell wall depsipeptide

INVENTOR(S): Chiossis, Gabriela; Boneca, Ivo G.; Still, W. Clark

PATENT ASSIGNEE(S): The Trustees of Columbia University in the City of New York, USA

SOURCE: PCT Int. Appl., 105 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE     | APPLICATION NO. | DATE       |
|------------------------|--|----------|-----------------|------------|
| WO 2003035098          | A1   | 20030501 | WO 2002-US26975 | 20020823   |
| W:                     | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW |          |                 |            |
| US 2003125372          | A1   | 20030703 | US 2001-938746  | 20010823   |
| US 6734165             | B2   | 20040511 |                 |            |
| EP 1427435             | A1   | 20040616 | EP 2002-768692  | 20020823   |
| R:                     | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK   |          |                 |            |
| US 2004180814          | A1   | 20040916 | US 2004-805624  | 20040318   |
| PRIORITY APPLN. INFO.: |  |          | US 2001-938746  | A 20010823 |
|                        |  |          | WO 2002-US26975 | W 20020823 |

OTHER SOURCE(S): MARPAT 138:331666

AB The present invention relates a method for re-sensitizing vancomycin resistant Gram-pos. bacteria in which resistance results from the conversion of an amide bond to an ester bond in the cell wall peptide precursors of the bacteria which comprises using an antibacterial amount of

vancomycin or a homolog of vancomycin and an amount of an agent effective to selectively cleave the ester bond to thereby re-sensitize vancomycin resistant bacteria.

IT 518012-31-2

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(re-sensitizing vancomycin resistant Gram-pos. bacteria using agents which selectively cleave ester bond of D-Ala-D-Lac cell wall depsipeptide)

RN 518012-31-2 CAPLUS

CN 2-Pyrrolidinemethanol, 1-[(2S)-2-amino-1-oxopropyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

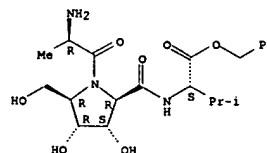
L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)

RL: SPN (Synthetic preparation); PREP (Preparation)  
(asym. prepn. of (dihydroxy)hydroxymethylproline and its incorporation into tripeptides)

RN 726192-28-5 CAPLUS

CN L-Valine, D-alanyl-(3S,4R,5R)-3,4-dihydroxy-5-(hydroxymethyl)-D-prolyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

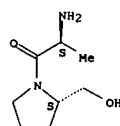
Absolute stereochemistry.



REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

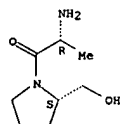
L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2001:643886 CAPLUS  
 DOCUMENT NUMBER: 136:2743  
 TITLE: Selective cleavage of D-Ala-D-Lac by small molecules: re-sensitizing resistant bacteria to vancomycin  
 AUTHOR(S): Chiosis, Gabriela; Boneca, Ivo G.  
 CORPORATE SOURCE: Department of Chemistry, Columbia University, New York, NY, 10027, USA  
 SOURCE: Science (Washington, DC, United States) (2001), 293(5534), 1484-1487  
 CODEN: SCIEAS; ISSN: 0036-8075  
 PUBLISHER: American Association for the Advancement of Science  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Pathogenic enterococci are becoming resistant to currently available antibiotics, including vancomycin, the drug of last resort for Gram-pos. infections. Enterococci pose a significant public health threat, not least because of the risk of transferring vancomycin resistance to the ubiquitous Staphylococcus aureus. Vancomycin resistance is manifested by cell wall peptidoglycan precursors with altered termini that cannot bind the antibiotic. Small mols. with well-oriented nucleophile-electrophile assembly and complementary chirality to the peptidoglycan termini were identified as catalytic and selective cleavers of the peptidoglycan precursor depsipeptide. These mols. were tested in combination with vancomycin and were found to re-sensitize vancomycin-resistant bacteria

to the antibiotic.

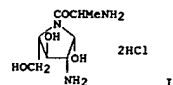
IT 376643-19-5  
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (selective cleavage of D-Ala-D-Lac by small mols.: re-sensitizing resistant bacteria to vancomycin)  
 RN 376643-19-5 CAPLUS  
 CN 2-Pyrrolidinemethanol, 1-[(2R)-2-amino-1-oxopropyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



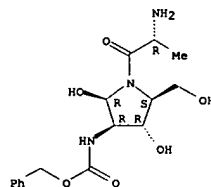
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1978:152891 CAPLUS  
 DOCUMENT NUMBER: 88:152891  
 TITLE: Studies on heterosugars. Part II. Synthesis of 2,4-diamino-2,4-dideoxy-L-arabinose derivatives (prumycin derivatives)  
 AUTHOR(S): Hsegawa, Akira; Sakurai, Tooru; Kiso, Makoto  
 CORPORATE SOURCE: Dep. Agric. Chem., Gifu Univ., Gifu, Japan  
 SOURCE: Agricultural and Biological Chemistry (1978), 42(1), 153-8  
 CODEN: ABCHA6; ISSN: 0002-1369  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English



AB 2,4-Diamino-2,4-dideoxy-L-arabinose deriva. were prepared from benzyl 2-(benzyloxycarbonyl)amino-2-deoxy-β-D-glucopyranoside by a series of known reactions. Among the compds. prepared is furanoid prumycin I.  
 IT 66167-01-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and catalytic hydrogenolysis of)  
 RN 66167-01-9 CAPLUS  
 CN Carbamic acid, [1-(2-amino-1-oxopropyl)-2,4-dihydroxy-5-(hydroxymethyl)-3-pyrrolidinyl]-, phenylmethyl ester, [2R-[1(R\*),2α,3α,4β,5α]]- (9CI) (CA INDEX NAME)

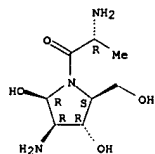
Absolute stereochemistry.



IT 66167-02-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 66167-02-0 CAPLUS  
 CN 2,4-Pyrrolidinediol, 3-amino-1-(2-amino-1-oxopropyl)-5-(hydroxymethyl)-, dihydrochloride, [2R-[1(R\*),2α,3α,4β,5α]]- (9CI)

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)  
 (CA INDEX NAME)

Absolute stereochemistry.



● 2 HCl

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FILE 'HOME' ENTERED AT 14:16:11 ON 08 MAR 2005

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 14:16:18 ON 08 MAR 2005

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STRUCTURE FILE UPDATES: 6 MAR 2005 HIGHEST RN 843607-47-6

DICTIONARY FILE UPDATES: 6 MAR 2005 HIGHEST RN 843607-47-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

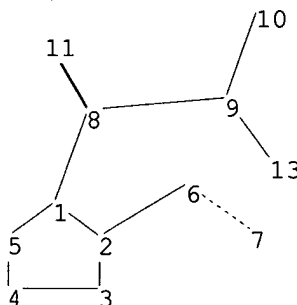
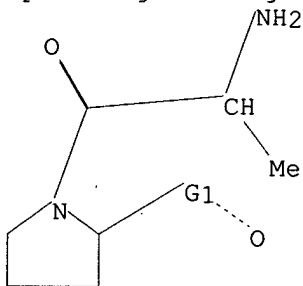
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10805624n.str



chain nodes :

6 7 8 9 10 11 13

ring nodes :

1 2 3 4 5

chain bonds :

1-8 2-6 6-7 8-9 8-11 9-10 9-13

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 1-8 2-6 6-7 8-11 9-10

exact bonds :

2-3 3-4 4-5 8-9 9-13

isolated ring systems :

containing 1 :

G1:CH2,CH

Match level :

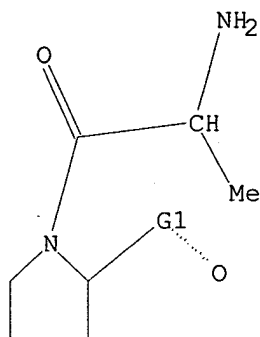
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
10:CLASS 11:CLASS 13:CLASS

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 CH2,CH

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 14:16:31 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 16383 TO ITERATE

6.1% PROCESSED 1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 319996 TO 335324  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 14:16:34 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 329095 TO ITERATE

100.0% PROCESSED 329095 ITERATIONS  
SEARCH TIME: 00.00.03

7 ANSWERS

L3 7 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 161.33     | 161.54  |

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 14:16:41 ON 08 MAR 2005  
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FILE COVERS 1907 - 8 Mar 2005 VOL 142 ISS 11  
FILE LAST UPDATED: 7 Mar 2005 (20050307/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4            5 L3

=> d ibib abs hitstr tot



L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:435765 CAPLUS

DOCUMENT NUMBER: 141:140758

TITLE: Synthesis of D- and

L-2,3-trans-3,4-cis-4,5-trans-3,4-

Dihydroxy-5-hydroxymethylproline and Tripeptides

Containing Them

Moreno-Vargas, Antonio J.; Robina, Inmaculada;

Petricci, Elena; Vogel, Pierre

Laboratoire de Glycochimie et de Synthèse

Asymétrique,

Swiss Federal Institute of Technology (EPFL),

Lausanne-Dorigny, CH-1015, Switz.

Journal of Organic Chemistry (2004), 69(13),

4487-4491

CODEN: JOCEAH; ISSN: 0022-3263

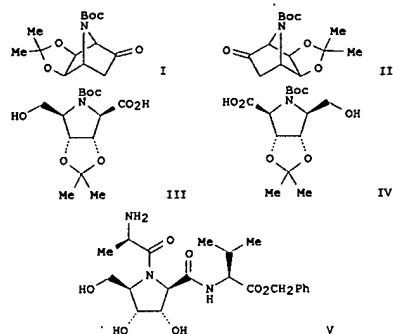
PUBLISHER: American Chemical Society

Journal

English

OTHER SOURCE(S): CASREACT 141:140758

GI



AB Enantiomerically pure (-)- and (+)-7-(tert-butoxycarbonyl)-5,6-exo-isopropylidenedioxy-7-azabicyclo[2.2.1]heptan-2-ones, I and II, resp., were prepared I and II were converted into D- and

L-2,3-trans-3,4-cis-4,5-

trans-N-(tert-butoxycarbonyl)-5-hydroxymethyl-3,4-isopropylidenedioxyprolines, III and IV, resp. Applying the Boc and Fmoc strategies of peptide synthesis, these compds. were used to construct two tripeptides. For example, III was incorporated into peptide synthesis to give tripeptide V.

IT 726192-28-5P

RL: SPN (Synthetic preparation): PREP (Preparation)

(asym. preparation of (dihydroxy)hydroxymethylproline and its incorporation

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:334930 CAPLUS

DOCUMENT NUMBER: 138:331666

TITLE: Method for re-sensitizing vancomycin resistant

bacteria using agents which selectively cleave a cell

wall depsipeptide

Chiosis, Gabriela; Boneca, Ivo G.; Still, W. Clark

The Trustees of Columbia University in the City of

New

York, USA

PCT Int. Appl., 105 pp.

CODEN: PIXXD2

Patent

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE                       |
|---|------|----------|-----------------|----------------------------|
| WO 2003035098   | A1   | 20030501 | WO 2002-US26975 | 20020823                   |
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| RW: GH, GM, KE, LS, MW, MZ, SD, SI, SZ, T2, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SH, TD, TG  |      |          |                 |                            |
| US 2003125372   | A1   | 20030703 | US 2001-938746  | 20010823                   |
| US 6734165  | B2   | 20040511 |                 |                            |
| EP 1427435  | A1   | 20040616 | EP 2002-768692  | 20020823                   |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK   |      |          |                 |                            |
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| PRIORITY APPLN. INFO.:  |      |          |                 | US 2001-938746 A 20010823  |
|   |      |          |                 | WO 2002-US26975 W 20020823 |

OTHER SOURCE(S): MARPAT 138:331666

AB The present invention relates a method for re-sensitizing vancomycin resistant Gram-pos. bacteria in which resistance results from the conversion of an amide bond to an ester bond in the cell wall peptide precursors of the bacteria which comprises using an antibacterial amount

of vancomycin or a homolog of vancomycin and an amount of an agent

effective to selectively cleave the ester bond to thereby re-sensitize vancomycin resistant bacteria.

IT 518012-31-2

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(re-sensitizing vancomycin resistant Gram-pos. bacteria using agents which selectively cleave ester bond of D-Ala-D-Lac cell wall depsipeptide)

RN 518012-31-2 CAPLUS

CN 2-Pyrrolidinemethanol, 1-[(2S)-2-amino-1-oxopropyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

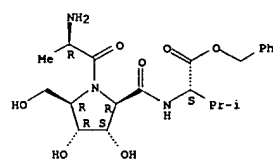
L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

into tripeptides)

RN 726192-28-5 CAPLUS

CN L-Valine, D-alanyl-(3S,4R,5R)-3,4-dihydroxy-5-(hydroxymethyl)-D-prolyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



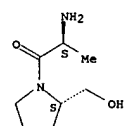
REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR

THIS

FORMAT

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L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

FORMAT

RECORD. ALL CITATIONS AVAILABLE IN THE RE

L4 ANSWER 3 OF 5 CAPIUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2001:643886 CAPIUS  
 DOCUMENT NUMBER: 136:2743  
 TITLE: Selective cleavage of D-Ala-D-Lac by small molecules:  
 re-sensitizing resistant bacteria to vancomycin  
 AUTHOR(S): Chiosis, Gabriela; Boneca, Ivo G.  
 CORPORATE SOURCE: Department of Chemistry, Columbia University, New  
 York, NY, 10027, USA  
 SOURCE: Science (Washington, DC, United States) (2001),  
 293(5534), 1484-1487  
 CODEN: SCIEAS; ISSN: 0036-8075  
 PUBLISHER: American Association for the Advancement of Science  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

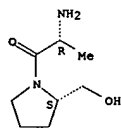
AB Pathogenic enterococci are becoming resistant to currently available  
 antibiotics, including vancomycin, the drug of last resort for Gram-pos.  
 infections. Enterococci pose a significant public health threat, not  
 least because of the risk of transferring vancomycin resistance to the  
 ubiquitous Staphylococcus aureus. Vancomycin resistance is manifested by  
 cell wall peptidoglycan precursors with altered termini that cannot bind  
 the antibiotic. Small mols. with well-oriented nucleophile-electrophile  
 assembly and complementary chirality to the peptidoglycan termini were  
 identified as catalytic and selective cleavers of the peptidoglycan  
 precursor depsipeptide. These mols. were tested in combination with  
 vancomycin and were found to re-sensitize vancomycin-resistant bacteria

to the antibiotic.

IT 376643-19-5  
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL  
 (Biological study); USES (Uses)  
 (selective cleavage of D-Ala-D-Lac by small mols.: re-sensitizing  
 resistant bacteria to vancomycin)

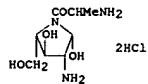
RN 376643-19-5 CAPIUS  
 CN 2-Pyrrolidinemethanol, 1-[(2R)-2-amino-1-oxopropyl]-, (2S)- (CA  
 INDEX NAME)

Absolute stereochemistry.



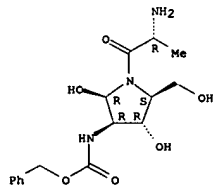
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR  
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L4 ANSWER 5 OF 5 CAPIUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1978:152891 CAPIUS  
 DOCUMENT NUMBER: 88:152891  
 TITLE: Studies on heterosugars. Part II. Synthesis of  
 2,4-diamino-2,4-dideoxy-L-arabinose derivatives  
 (prumycin derivatives)  
 AUTHOR(S): Hasegawa, Akira; Sakurai, Tooru; Kiso, Makoto  
 CORPORATE SOURCE: Dep. Agric. Chem., Gifu Univ., Gifu, Japan  
 SOURCE: Agricultural and Biological Chemistry (1978), 42(1),  
 153-8  
 CODEN: ABCHA6; ISSN: 0002-1369  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English



AB 2,4-Diamino-2,4-dideoxy-L-arabinose derivs. were prepared from benzyl  
 2-(benzyloxycarbonyl)amino-2-deoxy-β-D-glucopyranoside by a series of  
 known reactions. Among the compds. prepared is furanoid prumycin I.  
 IT 66167-01-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and catalytic hydrogenolysis of)  
 RN 66167-01-9 CAPIUS  
 CN Carbamic acid,  
 [1-(2-amino-1-oxopropyl)-2,4-dihydroxy-5-(hydroxymethyl)-3-  
 pyrrolidinyl]-, phenylmethyl ester, {2R-[1(R\*),2α,3α,4β,5  
 α]}- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



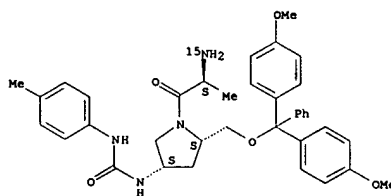
IT 66167-02-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 66167-02-0 CAPIUS  
 CN 2,4-Pyrrolidinediol, 3-amino-1-(2-amino-1-oxopropyl)-5-(hydroxymethyl)-,  
 dihydrochloride, [2R-[1(R\*),2α,3α,4β,5α]}- (9CI)

L4 ANSWER 4 OF 5 CAPIUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1997:790867 CAPIUS  
 DOCUMENT NUMBER: 128:75651  
 TITLE: The solid phase synthesis of trisubstituted  
 1,4-diazabicyclo[4.3.0]nonan-2-one scaffolds: on bead  
 monitoring of heterocycle forming reactions using 15N  
 NMR  
 AUTHOR(S): Swayze, Eric E.  
 CORPORATE SOURCE: Isis Pharmaceuticals, Carlsbad, CA, 92008, USA  
 SOURCE: Tetrahedron Letters (1997), 38(50), 8643-8646  
 CODEN: TELEAY; ISSN: 0040-4039  
 PUBLISHER: Elsevier Science Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Several representative 3,4,8-trisubstituted  
 1,4-diazabicyclo[3.4.0]nonan-2-  
 ones have been prepared employing solid phase methodologies.  
 Elaboration of  
 a 4-hydroxyproline derivative with a 15N-amino acid derivative allowed  
 convenient  
 monitoring of the reaction sequence on solid support by gel-phase 15N  
 NMR.  
 An intramol. Mitsunobu cyclization provided the desired heterocycle,  
 which  
 could be further functionalized at the 4-position. This synthetic method  
 is facile, general, and suitable for the construction of large libraries  
 of compds. for biol. assays.

IT 200623-22-9DP, resin-bound  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (NMR monitoring of solid phase synthesis of trisubstituted  
 diazabicyclononanone scaffolds)  
 RN 200623-22-9 CAPIUS  
 CN 3-Pyrrolidinamine, 1-[2-(amino-15N)-1-oxopropyl]-5-[[bis(4-  
 methoxyphenyl)phenylmethoxy)methyl]-N-[[[(4-methylphenyl)amino]carbonyl]-,  
 [3S-[1(R\*),3α,5α]]- (9CI) (CA INDEX NAME)

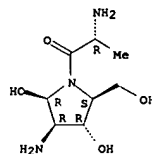
Absolute stereochemistry.



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L4 ANSWER 5 OF 5 CAPIUS COPYRIGHT 2005 ACS on STN (Continued)  
 (CA-INDEX NAME)

Absolute stereochemistry.



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